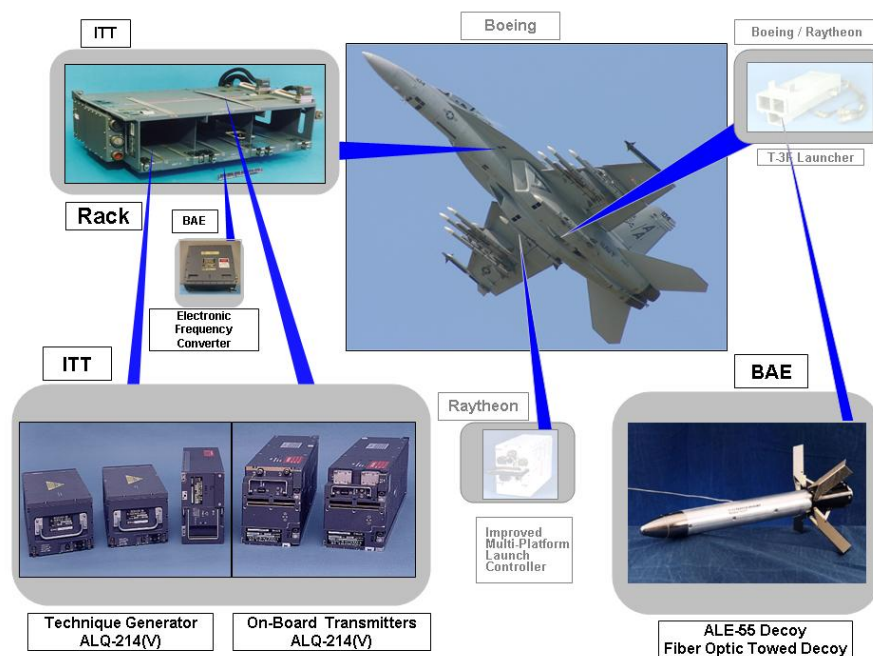




## Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-418



## Integrated Defensive Electronic Countermeasures (IDECM)

As of FY 2015 President's Budget

Defense Acquisition Management  
Information Retrieval  
(DAMIR)

Report Documentation Page				Form Approved OMB No. 0704-0188	
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1. REPORT DATE <b>DEC 2013</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2013 to 00-00-2013</b>	
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6. AUTHOR(S)				5d. PROJECT NUMBER	
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16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>Same as Report (SAR)</b>	18. NUMBER OF PAGES <b>54</b>	19a. NAME OF RESPONSIBLE PERSON
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## Common Acronyms and Abbreviations

Acq O&M - Acquisition-Related Operations and Maintenance  
APB - Acquisition Program Baseline  
APPN - Appropriation  
APUC - Average Procurement Unit Cost  
BA - Budget Authority/Budget Activity  
BY - Base Year  
DAMIR - Defense Acquisition Management Information Retrieval  
Dev Est - Development Estimate  
DoD - Department of Defense  
DSN - Defense Switched Network  
Econ - Economic  
Eng - Engineering  
Est - Estimating  
FMS - Foreign Military Sales  
FY - Fiscal Year  
IOC - Initial Operational Capability  
\$K - Thousands of Dollars  
LRIP - Low Rate Initial Production  
\$M - Millions of Dollars  
MILCON - Military Construction  
N/A - Not Applicable  
O&S - Operating and Support  
Oth - Other  
PAUC - Program Acquisition Unit Cost  
PB - President's Budget  
PE - Program Element  
Proc - Procurement  
Prod Est - Production Estimate  
QR - Quantity Related  
Qty - Quantity  
RDT&E - Research, Development, Test, and Evaluation  
SAR - Selected Acquisition Report  
Sch - Schedule  
Spt - Support  
TBD - To Be Determined  
TY - Then Year  
UCR - Unit Cost Reporting

## Program Information

**Program Name**

Integrated Defensive Electronic Countermeasures (IDECM)

**DoD Component**

Navy

## Responsible Office

**Responsible Office**

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## References

### IDECM Blocks 2/3

**SAR Baseline (Production Estimate)**

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated June 16, 2008

**Approved APB**

Assistant Secretary of the Navy (Research, Development &amp; Acquisition) (ASN(RDA)) Approved Acquisition Program Baseline (APB) dated April 13, 2012

### IDECM Block 4

**SAR Baseline (Development Estimate)**

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated June 16, 2008

**Approved APB**

Component Acquisition Executive (CAE) Approved Acquisition Program Baseline (APB) dated February 3, 2014

## Mission and Description

The Integrated Defensive Electronic Countermeasures (IDECM) System is a Radio Frequency (RF), self-protection electronic countermeasure suite on the F/A-18 aircraft. IDECM improves the survivability of the F/A-18 aircraft against RF guided threats during Air-to-Ground/Surface and Air-to-Air missions. The system is comprised of onboard components, which receive and process radar signals, along with onboard and offboard jammer components that transmit appropriate RF jamming responses.

There are four IDECM variants in development, production, or sustainment. Blocks 1-3 are compatible with F/A-18E/F aircraft only. Block 4 is compatible with F/A-18C-F aircraft.

IDECM Block 1: A federated suite, consisting of the ALQ-165 On-Board Jammer (OBJ) and ALE-50 expendable decoy.

IDECM Block 2: An integrated suite, consisting of the ALQ-214 OBJ and ALE-50 expendable decoy.

IDECM Block 3: An integrated suite, consisting of the ALQ-214 OBJ and ALE-55 Fiber Optic Towed Decoy.

IDECM Block 4: An Engineering Change Proposal to the ALQ-214 OBJ to render it suitable for operation on F/A-18C/D aircraft, while retaining all functionality, when installed on F/A-18E/F.

## Executive Summary

### IDECM Block 2 (IB-2) ALQ-214(V)3.

The ALQ-214 is in Full Rate Production (FRP) and all production contracts are performing well. Current as of March 6, 2014, ITT Exelis has delivered two hundred seventy-six (276) ALQ-214(V)3 production systems under the LRIP 1 through FRP 8 contracts. All deliveries in the ALQ-214(V)3 configuration are complete and all deliveries have been at least one month ahead of the contracted schedule.

### IDECM Block-3 (IB-3) ALE-55.

The ALE-55 is in FRP and all production contracts are performing well. Current as of March 6, 2014, BAE Systems has delivered one thousand two hundred sixty-two (1,262) Fiber Optic Towed Decoys (FOTD) and two hundred forty-seven (247) Electronic Frequency Converters (EFC) under the LRIP 4 through FRP 2 contracts, ahead of the contracted schedule. The FRP 2 through 4 contract was awarded on December 17, 2012. FRP 3 FOTD deliveries are contractually scheduled to begin in May 2014. FRP 3 EFC deliveries are contractually scheduled to begin in November 2014.

### IDECM Block-4 (IB-4) ALQ-214 Engineering Change Proposal (ECP).

The IPR 5 brief was provided to ASN(RD&A) on January 8, 2014. Minutes of the "Electronic" review, which served as an Acquisition Decision Memorandum, were released on February 12, 2014. The minutes provided ASN(RD&A) concurrence with award of the FY 2014 ALQ-214 production contract. IPR 4 was conducted with ASN(RD&A) on April 9, 2013. The IPR resulted in: approval to execute the planned FY 2013 production option; revision of the APB objectives to reflect current estimates for Operational Test (OT) Start, IPR 5, IPR 6 and IOC (no impact to cost or performance); direction to update the IDECM Acquisition Strategy to reflect award of the FY 2014 production contract following IPR 5; and conduct of the final IPR (IPR 6) after completion of OT. The revised APB was signed by ASN(RD&A) on February 3, 2014. The revised Acquisition Strategy is in review/signature routing. Continued Development and Integrated Test subsequent to IPR4 (lab and flight) has demonstrated consistent improvement to system performance, and the program is tracking to the revised APB schedule.

### IDECM Block-4 (IB-4) Production.

The FRP 9 through 11 contract was awarded on April 16, 2012. FRP 9 deliveries began in January 2014. Current as of March 6, 2014, ITT Exelis has delivered three (3) ALQ-214(V)4 production systems under the FRP 9 contract. FRP 10 was awarded May 23, 2013. The FRP 11 option is in place and planned in 2nd Quarter, FY 2014.

There are no significant software related issues with this program at this time.

## Threshold Breaches

### IDECM Blocks 2/3

#### APB Breaches

Schedule ☐

Performance ☐

Cost RDT&E ☐

Procurement ☐

MILCON ☐

Acq O&M ☐

O&S Cost ☐

Unit Cost PAUC ☐

APUC ☐

#### Nunn-McCurdy Breaches

##### Current UCR Baseline

PAUC None

APUC None

##### Original UCR Baseline

PAUC None

APUC None

### IDECM Block 4

#### APB Breaches

Schedule ☐

Performance ☐

Cost RDT&E ☐

Procurement ☐

MILCON ☐

Acq O&M ☐

O&S Cost ☐

Unit Cost PAUC ☐

APUC ☐

#### Nunn-McCurdy Breaches

##### Current UCR Baseline

PAUC None

APUC None

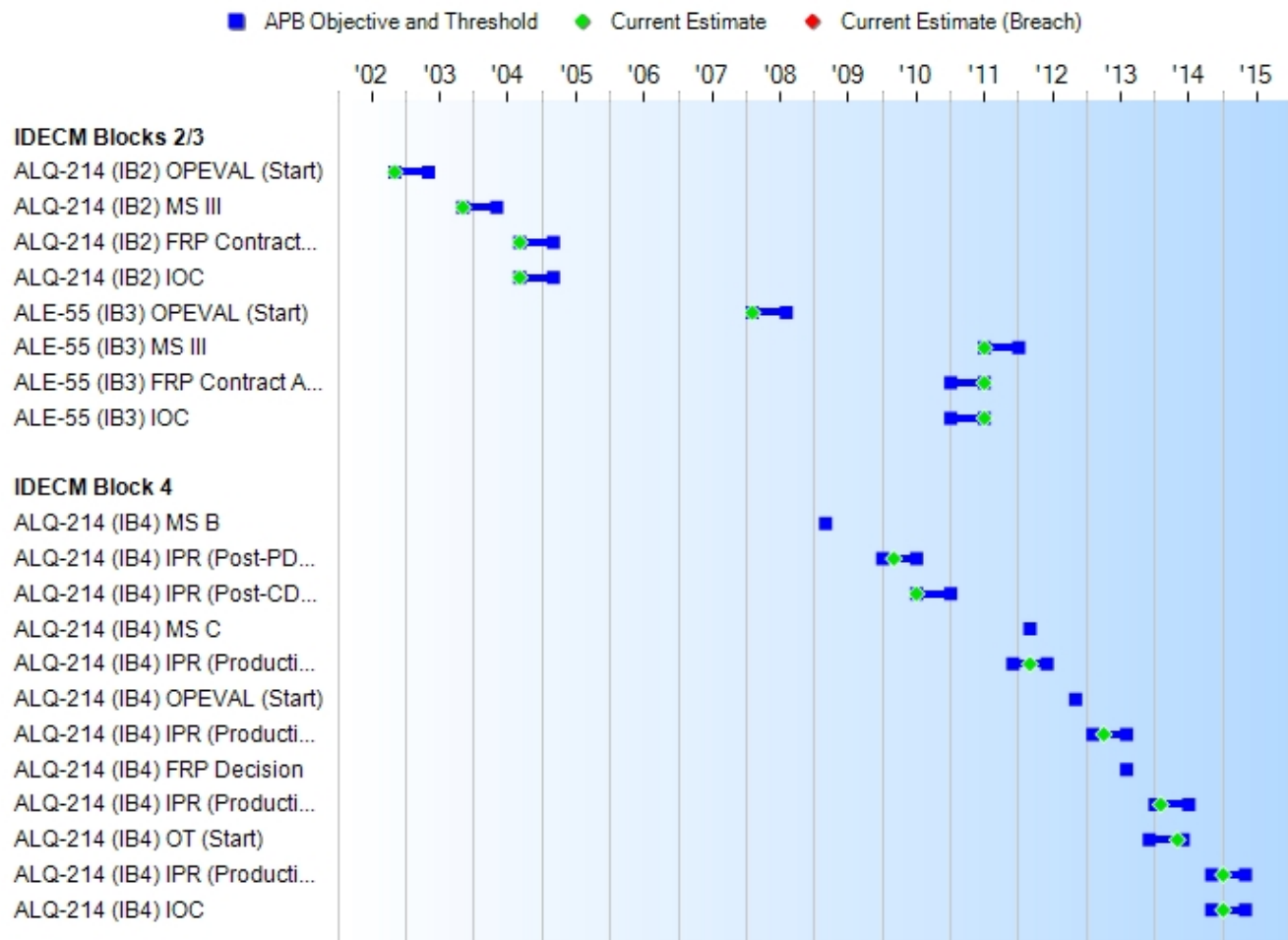
##### Original UCR Baseline

PAUC None

APUC None



## Schedule



IDECM Blocks 2/3				
Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
ALQ-214 (IB2) OPEVAL (Start)	NOV 2002	NOV 2002	MAY 2003	NOV 2002
ALQ-214 (IB2) MS III	NOV 2003	NOV 2003	MAY 2004	NOV 2003
ALQ-214 (IB2) FRP Contract Award	SEP 2004	SEP 2004	MAR 2005	SEP 2004
ALQ-214 (IB2) IOC	SEP 2004	SEP 2004	MAR 2005	SEP 2004
ALE-55 (IB3) OPEVAL (Start)	FEB 2008	FEB 2008	AUG 2008	FEB 2008
ALE-55 (IB3) MS III	JAN 2009	JUL 2011	JAN 2012	JUL 2011
ALE-55 (IB3) FRP Contract Award	FEB 2009	JAN 2011	JUL 2011	JUL 2011
ALE-55 (IB3) IOC	FEB 2010	JAN 2011	JUL 2011	JUL 2011

**Change Explanations**

None

**Acronyms and Abbreviations**

FRP - Full Rate Production

IB2 - IDECM Block 2

IB3 - IDECM Block 3

MS - Milestone

OPEVAL - Operational Evaluation

**IDECM Block 4**

<b>Milestones</b>	<b>SAR Baseline Dev Est</b>	<b>Current APB Production Objective/Threshold</b>		<b>Current Estimate</b>	
ALQ-214 (IB4) MS B	MAR 2009	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Post-PDR Assessment)	N/A	JAN 2010	JUL 2010	MAR 2010	
ALQ-214 (IB4) IPR (Post-CDR Assessment)	N/A	JUL 2010	JAN 2011	JUL 2010	
ALQ-214 (IB4) MS C	MAR 2012	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Production Cut-in Review 1)	N/A	DEC 2011	JUN 2012	MAR 2012	
ALQ-214 (IB4) OPEVAL (Start)	NOV 2012	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Production Cut-in Review 2)	N/A	FEB 2013	AUG 2013	APR 2013	
ALQ-214 (IB4) FRP Decision	AUG 2013	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Production Cut-in Review 3)	N/A	JAN 2014	JUL 2014	FEB 2014	(Ch-1)
ALQ-214 (IB4) OT (Start)	N/A	DEC 2013	JUN 2014	MAY 2014	(Ch-2)
ALQ-214 (IB4) IPR (Production Transition)	N/A	NOV 2014	MAY 2015	JAN 2015	(Ch-3)
ALQ-214 (IB4) IOC	FEB 2014	NOV 2014	MAY 2015	JAN 2015	(Ch-3)

**Change Explanations**

(Ch-1) The ALQ-214 (IB4) IPR (Production Cut-In Review 3) Milestone was added as a result of the IPR (Production Cut-In Review 2) that was conducted in April 2013.

(Ch-2) The ALQ-214 (IB4) OT (Start) current estimated changed from December 2013 to May 2014 due to delays with Software Integration and flight testing.

(Ch-3) As a result of the delay of OT Start, ALQ-214 (IB4) IPR (Production Transition) and IOC changed from November 2014 to January 2015.

**Acronyms and Abbreviations**

CDR - Critical Design Review

FRP - Full Rate Production

IB4 - IDECM Block 4

IPR - In-Process Review

MS - Milestone

OPEVAL - Operational Evaluation

OT - Operational Test

PDR - Preliminary Design Review

## Performance

IDECM Blocks 2/3					
Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
ALQ-214 (IB2/3 On-Board Jammer) Ao	0.95	0.95	0.9	0.92	0.92
ALQ-214 (IB3 Off-Board Jammer) Ao	0.95	0.95	0.9	0.997	0.997
ALQ-214 (IB2) Operating Envelope	N/A	LBA	LBA	LBA	LBA

Classified Performance information is provided in the classified annex to this submission.

### Requirements Source

Operational Requirements Document (ORD) (Block 2) dated November 2003 and Capability Production Document (CPD) (Block 3) dated November 13, 2007

### Change Explanations

None

### Acronyms and Abbreviations

Ao - Operational Availability  
 IB-2 - IDECM Block 2  
 IB-3 - IDECM Block 3  
 LBA - Limits of Basic Airframe

IDECM Block 4					
Characteristics	SAR Baseline Dev Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
ALQ-214 (IB2/3/4 On-Board Jammer) Ao	0.95	0.95	0.9	TBD	0.95
ALQ-214 (IB2) Operating Envelope	N/A	LBA	LBA	LBA	LBA
ALQ-214 (IB2/3/4 On-board Jammer) Operational Availability	Ao >= 0.95	N/A	N/A	N/A	N/A

Classified Performance information is provided in the classified annex to this submission.

### Requirements Source

Operational Requirements Document (ORD) (Block 4) dated November 2003 and Statement of Functionality (SOF) dated October 12, 2010

**Change Explanations**

None

**Acronyms and Abbreviations**

Ao - Operational Availability

IB-2 - IDECM Block 2

IB-3 - IDECM Block 3

IB-4 - IDECM Block 4

LBA - Limits of Basic Airframe

## Track to Budget

### IDECM Blocks 2/3

#### RDT&E

Appn	BA	PE
Navy 1319	05	0604270N
<b>Project</b>		<b>Name</b>
2175		Tactical Air Electronic Warfare (Sunk)

#### Procurement

Appn	BA	PE
Navy 1506	05	0204161N
<b>Line Item</b>		<b>Name</b>
05760		Common Electronic Countermeasures (Shared) (Sunk)
Navy 1506	06	0204161N
<b>Line Item</b>		<b>Name</b>
0605		Aircraft Spares and Repair Parts (Shared) (Sunk)
Navy 1508	01	0204162N
<b>Line Item</b>		<b>Name</b>
01820		Air Expendable Countermeasures (Shared)

### IDECM Block 4

#### RDT&E

Appn	BA	PE
Navy 1319	05	0604270N
<b>Project</b>		<b>Name</b>
2175		Tactical Air Electronic Warfare

#### Procurement

Appn	BA	PE
Navy 1506	05	0204161N
<b>Line Item</b>		<b>Name</b>
05760		Common Electronic Countermeasures (Shared)
Navy 1506	06	0204161N
<b>Line Item</b>		<b>Name</b>
0605		Aircraft Spares and Repair Parts (Shared)

## Cost and Funding

### Cost Summary - Total Program

#### Total Acquisition Cost and Quantity - Total Program

Appropriation	BY2008 \$M			BY2008 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	664.4	696.2	--	691.4	615.2	645.1	643.6
Procurement	1407.2	1579.4	--	1674.0	1666.1	1885.5	2151.5
Flyaway	--	--	--	1302.7	--	--	1737.9
Recurring	--	--	--	1292.5	--	--	1727.3
Non Recurring	--	--	--	10.2	--	--	10.6
Support	--	--	--	371.3	--	--	413.6
Other Support	--	--	--	230.2	--	--	271.4
Initial Spares	--	--	--	141.1	--	--	142.2
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2071.6	2275.6	N/A	2365.4	2281.3	2530.6	2795.1

## Cost and Funding

### Cost Summary - IDECM Blocks 2/3

#### Total Acquisition Cost and Quantity - IDECM Blocks 2/3

Appropriation	BY2008 \$M			BY2008 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	454.9	456.4	502.0	456.4	391.0	391.0	391.0
Procurement	956.0	1037.5	1141.3	1102.5	1144.2	1276.4	1477.4
Flyaway	--	--	--	872.1	--	--	1230.1
Recurring	--	--	--	865.1	--	--	1223.0
Non Recurring	--	--	--	7.0	--	--	7.1
Support	--	--	--	230.4	--	--	247.3
Other Support	--	--	--	150.9	--	--	175.6
Initial Spares	--	--	--	79.5	--	--	71.7
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	1410.9	1493.9	N/A	1558.9	1535.2	1667.4	1868.4

#### Confidence Level for Current APB Cost 50% -

The current APB cost estimate provided sufficient resources to execute the program under normal conditions, encountering average levels of technical, schedule and programmatic risk and external interference. It was consistent with average resource expenditures on historical efforts of similar size, scope, and complexity and represents a notional 50% confidence level when established.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	12809	12805	12805
Total	12809	12805	12805



## Cost Summary - IDECM Block 4

### Total Acquisition Cost and Quantity - IDECM Block 4

Appropriation	BY2008 \$M			BY2008 \$M	TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate	SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	209.5	239.8	263.8	235.0	224.2	254.1	252.6
Procurement	451.2	541.9	596.1	571.5	521.9	609.1	674.1
Flyaway	--	--	--	430.6	--	--	507.8
Recurring	--	--	--	427.4	--	--	504.3
Non Recurring	--	--	--	3.2	--	--	3.5
Support	--	--	--	140.9	--	--	166.3
Other Support	--	--	--	79.3	--	--	95.8
Initial Spares	--	--	--	61.6	--	--	70.5
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	660.7	781.7	N/A	806.5	746.1	863.2	926.7

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	0	0	0
Procurement	160	190	190
Total	160	190	190

## Cost and Funding

### Funding Summary - Total Program

#### Appropriation and Quantity Summary - Total Program FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	604.8	13.9	11.8	6.1	2.4	2.3	2.3	0.0	643.6
Procurement	574.8	108.8	139.6	158.9	69.6	73.3	62.9	963.6	2151.5
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	1179.6	122.7	151.4	165.0	72.0	75.6	65.2	963.6	2795.1
PB 2014 Total	1194.2	134.4	159.3	172.3	77.1	80.6	62.4	865.0	2745.3
Delta	-14.6	-11.7	-7.9	-7.3	-5.1	-5.0	2.8	98.6	49.8

## Cost and Funding

### Funding Summary - IDECM Blocks 2/3

#### Appropriation and Quantity Summary - IDECM Blocks 2/3 FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	391.0
Procurement	463.5	20.1	21.6	21.9	22.4	25.0	25.5	877.4	1477.4
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	854.5	20.1	21.6	21.9	22.4	25.0	25.5	877.4	1868.4
PB 2014 Total	856.9	21.1	22.1	22.4	22.9	25.5	25.9	853.7	1850.5
Delta	-2.4	-1.0	-0.5	-0.5	-0.5	-0.5	-0.4	23.7	17.9

Quantity	Undistributed	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	1645	262	283	285	289	330	332	9379	12805
PB 2015 Total	0	1645	262	283	285	289	330	332	9379	12805
PB 2014 Total	0	1671	277	288	291	291	336	341	9310	12805
Delta	0	-26	-15	-5	-6	-2	-6	-9	69	0

## Funding Summary - IDECM Block 4

### Appropriation and Quantity Summary - IDECM Block 4 FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	213.8	13.9	11.8	6.1	2.4	2.3	2.3	0.0	252.6
Procurement	111.3	88.7	118.0	137.0	47.2	48.3	37.4	86.2	674.1
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	325.1	102.6	129.8	143.1	49.6	50.6	39.7	86.2	926.7
PB 2014 Total	337.3	113.3	137.2	149.9	54.2	55.1	36.5	11.3	894.8
Delta	-12.2	-10.7	-7.4	-6.8	-4.6	-4.5	3.2	74.9	31.9

Quantity	Undistributed	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	24	25	37	50	14	14	10	16	190
PB 2015 Total	0	24	25	37	50	14	14	10	16	190
PB 2014 Total	0	24	29	39	51	17	17	13	0	190
Delta	0	0	-4	-2	-1	-3	-3	-3	16	0

## Cost and Funding

### Annual Funding By Appropriation - IDECM Blocks 2/3

#### Annual Funding TY\$ - IDECM Blocks 2/3

#### 1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1995	--	--	--	--	--	--	11.8
1996	--	--	--	--	--	--	35.6
1997	--	--	--	--	--	--	49.7
1998	--	--	--	--	--	--	54.2
1999	--	--	--	--	--	--	56.5
2000	--	--	--	--	--	--	62.3
2001	--	--	--	--	--	--	40.8
2002	--	--	--	--	--	--	15.2
2003	--	--	--	--	--	--	12.9
2004	--	--	--	--	--	--	19.3
2005	--	--	--	--	--	--	12.9
2006	--	--	--	--	--	--	7.3
2007	--	--	--	--	--	--	8.6
2008	--	--	--	--	--	--	3.9
<b>Subtotal</b>	--	--	--	--	--	--	<b>391.0</b>

**Annual Funding BY\$ - IDECM Blocks 2/3**
**1319 | RDT&E | Research, Development, Test, and Evaluation, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non Recurring Flyaway BY 2008 \$M</b>	<b>Total Flyaway BY 2008 \$M</b>	<b>Total Support BY 2008 \$M</b>	<b>Total Program BY 2008 \$M</b>
1995	--	--	--	--	--	--	14.7
1996	--	--	--	--	--	--	43.5
1997	--	--	--	--	--	--	60.0
1998	--	--	--	--	--	--	64.9
1999	--	--	--	--	--	--	66.9
2000	--	--	--	--	--	--	72.7
2001	--	--	--	--	--	--	47.0
2002	--	--	--	--	--	--	17.3
2003	--	--	--	--	--	--	14.5
2004	--	--	--	--	--	--	21.1
2005	--	--	--	--	--	--	13.7
2006	--	--	--	--	--	--	7.5
2007	--	--	--	--	--	--	8.7
2008	--	--	--	--	--	--	3.9
<b>Subtotal</b>	--	--	--	--	--	--	<b>456.4</b>

## Annual Funding TY\$ - IDECM Blocks 2/3

## 1506 | Procurement | Aircraft Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2002	--	--	--	--	--	34.7	34.7
2003	--	--	--	--	--	25.9	25.9
2004	3	5.8	--	--	5.8	20.0	25.8
2005	12	21.6	--	--	21.6	14.4	36.0
2006	20	34.1	--	--	34.1	8.2	42.3
2007	14	26.5	--	--	26.5	8.4	34.9
2008	16	29.4	--	--	29.4	9.8	39.2
2009	9	20.8	--	1.4	22.2	19.3	41.5
2010	10	28.9	--	--	28.9	13.0	41.9
2011	1	7.1	--	--	7.1	11.7	18.8
<b>Subtotal</b>	<b>85</b>	<b>174.2</b>	<b>--</b>	<b>1.4</b>	<b>175.6</b>	<b>165.4</b>	<b>341.0</b>

**Annual Funding BY\$ - IDECM Blocks 2/3**  
**1506 | Procurement | Aircraft Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non Recurring Flyaway BY 2008 \$M</b>	<b>Total Flyaway BY 2008 \$M</b>	<b>Total Support BY 2008 \$M</b>	<b>Total Program BY 2008 \$M</b>
2002	--	--	--	--	--	39.1	39.1
2003	--	--	--	--	--	28.6	28.6
2004	3	6.2	--	--	6.2	21.5	27.7
2005	12	22.6	--	--	22.6	15.0	37.6
2006	20	34.7	--	--	34.7	8.3	43.0
2007	14	26.3	--	--	26.3	8.4	34.7
2008	16	28.8	--	--	28.8	9.6	38.4
2009	9	20.1	--	1.4	21.5	18.6	40.1
2010	10	27.3	--	--	27.3	12.3	39.6
2011	1	6.6	--	--	6.6	10.8	17.4
<b>Subtotal</b>	<b>85</b>	<b>172.6</b>	<b>--</b>	<b>1.4</b>	<b>174.0</b>	<b>172.2</b>	<b>346.2</b>



**Annual Funding TY\$ - IDECM Blocks 2/3****1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway TY \$M</b>	<b>Non End Item Recurring Flyaway TY \$M</b>	<b>Non Recurring Flyaway TY \$M</b>	<b>Total Flyaway TY \$M</b>	<b>Total Support TY \$M</b>	<b>Total Program TY \$M</b>
2006	--	--	--	--	--	3.8	3.8
2007	--	--	--	--	--	0.4	0.4
2008	150	13.3	--	4.3	17.6	1.7	19.3
2009	251	14.0	--	1.4	15.4	1.5	16.9
2010	334	20.6	--	--	20.6	3.2	23.8
2011	282	17.2	--	--	17.2	1.8	19.0
2012	274	17.8	--	--	17.8	3.0	20.8
2013	269	17.5	--	--	17.5	1.0	18.5
2014	262	18.4	--	--	18.4	1.7	20.1
2015	283	19.9	--	--	19.9	1.7	21.6
2016	285	20.2	--	--	20.2	1.7	21.9
2017	289	20.6	--	--	20.6	1.8	22.4
2018	330	23.2	--	--	23.2	1.8	25.0
2019	332	23.6	--	--	23.6	1.9	25.5
2020	334	24.1	--	--	24.1	1.8	25.9
2021	337	24.5	--	--	24.5	1.8	26.3
2022	339	25.0	--	--	25.0	1.8	26.8
2023	341	25.4	--	--	25.4	1.8	27.2
2024	342	25.8	--	--	25.8	1.9	27.7
2025	345	26.3	--	--	26.3	1.9	28.2
2026	346	26.7	--	--	26.7	1.9	28.6
2027	347	27.2	--	--	27.2	1.9	29.1
2028	348	27.7	--	--	27.7	1.9	29.6
2029	349	28.2	--	--	28.2	1.9	30.1
2030	349	28.7	--	--	28.7	1.9	30.6
2031	349	29.2	--	--	29.2	2.0	31.2
2032	350	29.7	--	--	29.7	2.0	31.7
2033	351	30.2	--	--	30.2	2.0	32.2
2034	351	30.8	--	--	30.8	2.0	32.8

2035	352	31.3	--	--	31.3	2.0	33.3
2036	352	31.9	--	--	31.9	2.0	33.9
2037	352	32.4	--	--	32.4	2.1	34.5
2038	351	32.9	--	--	32.9	2.2	35.1
2039	350	33.5	--	--	33.5	2.2	35.7
2040	352	34.1	--	--	34.1	2.2	36.3
2041	352	34.7	--	--	34.7	2.2	36.9
2042	351	35.2	--	--	35.2	2.3	37.5
2043	351	35.8	--	--	35.8	2.3	38.1
2044	352	36.5	--	--	36.5	2.3	38.8
2045	352	37.2	--	--	37.2	2.3	39.5
2046	334	37.5	--	--	37.5	2.3	39.8
<b>Subtotal</b>	<b>12720</b>	<b>1048.8</b>	<b>--</b>	<b>5.7</b>	<b>1054.5</b>	<b>81.9</b>	<b>1136.4</b>

**Annual Funding BY\$ - IDECM Blocks 2/3****1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non Recurring Flyaway BY 2008 \$M</b>	<b>Total Flyaway BY 2008 \$M</b>	<b>Total Support BY 2008 \$M</b>	<b>Total Program BY 2008 \$M</b>
2006	--	--	--	--	--	3.9	3.9
2007	--	--	--	--	--	0.4	0.4
2008	150	13.0	--	4.2	17.2	1.7	18.9
2009	251	13.5	--	1.4	14.9	1.4	16.3
2010	334	19.5	--	--	19.5	3.0	22.5
2011	282	15.9	--	--	15.9	1.7	17.6
2012	274	16.2	--	--	16.2	2.8	19.0
2013	269	15.7	--	--	15.7	0.9	16.6
2014	262	16.2	--	--	16.2	1.5	17.7
2015	283	17.2	--	--	17.2	1.5	18.7
2016	285	17.1	--	--	17.1	1.5	18.6
2017	289	17.1	--	--	17.1	1.5	18.6
2018	330	18.9	--	--	18.9	1.5	20.4
2019	332	18.8	--	--	18.8	1.6	20.4
2020	334	18.9	--	--	18.9	1.4	20.3
2021	337	18.8	--	--	18.8	1.4	20.2
2022	339	18.8	--	--	18.8	1.4	20.2
2023	341	18.7	--	--	18.7	1.4	20.1
2024	342	18.7	--	--	18.7	1.3	20.0
2025	345	18.6	--	--	18.6	1.4	20.0
2026	346	18.6	--	--	18.6	1.3	19.9
2027	347	18.5	--	--	18.5	1.3	19.8
2028	348	18.5	--	--	18.5	1.3	19.8
2029	349	18.5	--	--	18.5	1.2	19.7
2030	349	18.4	--	--	18.4	1.3	19.7
2031	349	18.4	--	--	18.4	1.2	19.6
2032	350	18.3	--	--	18.3	1.3	19.6
2033	351	18.3	--	--	18.3	1.2	19.5
2034	351	18.3	--	--	18.3	1.2	19.5

2035	352	18.2	--	--	18.2	1.2	19.4
2036	352	18.2	--	--	18.2	1.1	19.3
2037	352	18.1	--	--	18.1	1.2	19.3
2038	351	18.0	--	--	18.0	1.2	19.2
2039	350	18.0	--	--	18.0	1.2	19.2
2040	352	18.0	--	--	18.0	1.1	19.1
2041	352	17.9	--	--	17.9	1.2	19.1
2042	351	17.8	--	--	17.8	1.2	19.0
2043	351	17.8	--	--	17.8	1.1	18.9
2044	352	17.8	--	--	17.8	1.1	18.9
2045	352	17.8	--	--	17.8	1.0	18.8
2046	334	17.5	--	--	17.5	1.1	18.6
<b>Subtotal</b>	<b>12720</b>	<b>692.5</b>	<b>--</b>	<b>5.6</b>	<b>698.1</b>	<b>58.2</b>	<b>756.3</b>

## Annual Funding By Appropriation - IDECM Block 4

### Annual Funding TY\$ - IDECM Block 4

#### 1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2008	--	--	--	--	--	--	5.2
2009	--	--	--	--	--	--	9.8
2010	--	--	--	--	--	--	62.3
2011	--	--	--	--	--	--	49.3
2012	--	--	--	--	--	--	60.3
2013	--	--	--	--	--	--	26.9
2014	--	--	--	--	--	--	13.9
2015	--	--	--	--	--	--	11.8
2016	--	--	--	--	--	--	6.1
2017	--	--	--	--	--	--	2.4
2018	--	--	--	--	--	--	2.3
2019	--	--	--	--	--	--	2.3
<b>Subtotal</b>	--	--	--	--	--	--	<b>252.6</b>

**Annual Funding BY\$ - IDECM Block 4****1319 | RDT&E | Research, Development, Test, and Evaluation, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non Recurring Flyaway BY 2008 \$M</b>	<b>Total Flyaway BY 2008 \$M</b>	<b>Total Support BY 2008 \$M</b>	<b>Total Program BY 2008 \$M</b>
2008	--	--	--	--	--	--	5.1
2009	--	--	--	--	--	--	9.6
2010	--	--	--	--	--	--	60.0
2011	--	--	--	--	--	--	46.3
2012	--	--	--	--	--	--	55.7
2013	--	--	--	--	--	--	24.5
2014	--	--	--	--	--	--	12.4
2015	--	--	--	--	--	--	10.4
2016	--	--	--	--	--	--	5.2
2017	--	--	--	--	--	--	2.0
2018	--	--	--	--	--	--	1.9
2019	--	--	--	--	--	--	1.9
<b>Subtotal</b>	--	--	--	--	--	--	<b>235.0</b>

**Annual Funding TY\$ - IDECM Block 4**  
**1506 | Procurement | Aircraft Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway TY \$M</b>	<b>Non End Item Recurring Flyaway TY \$M</b>	<b>Non Recurring Flyaway TY \$M</b>	<b>Total Flyaway TY \$M</b>	<b>Total Support TY \$M</b>	<b>Total Program TY \$M</b>
2012	7	29.6	--	3.5	33.1	14.5	47.6
2013	17	42.7	--	--	42.7	21.0	63.7
2014	25	66.9	--	--	66.9	21.8	88.7
2015	37	88.4	--	--	88.4	29.6	118.0
2016	50	112.1	--	--	112.1	24.9	137.0
2017	14	37.0	--	--	37.0	10.2	47.2
2018	14	38.2	--	--	38.2	10.1	48.3
2019	10	30.5	--	--	30.5	6.9	37.4
2020	9	29.3	--	--	29.3	7.9	37.2
2021	7	29.6	--	--	29.6	7.8	37.4
2022	--	--	--	--	--	5.9	5.9
2023	--	--	--	--	--	5.7	5.7
<b>Subtotal</b>	<b>190</b>	<b>504.3</b>	<b>--</b>	<b>3.5</b>	<b>507.8</b>	<b>166.3</b>	<b>674.1</b>

**Annual Funding BY\$ - IDECM Block 4**  
**1506 | Procurement | Aircraft Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non End Item Recurring Flyaway BY 2008 \$M</b>	<b>Non Recurring Flyaway BY 2008 \$M</b>	<b>Total Flyaway BY 2008 \$M</b>	<b>Total Support BY 2008 \$M</b>	<b>Total Program BY 2008 \$M</b>
2012	7	27.0	--	3.2	30.2	13.2	43.4
2013	17	38.3	--	--	38.3	18.8	57.1
2014	25	58.9	--	--	58.9	19.2	78.1
2015	37	76.4	--	--	76.4	25.6	102.0
2016	50	95.0	--	--	95.0	21.1	116.1
2017	14	30.7	--	--	30.7	8.5	39.2
2018	14	31.1	--	--	31.1	8.2	39.3
2019	10	24.4	--	--	24.4	5.5	29.9
2020	9	22.9	--	--	22.9	6.2	29.1
2021	7	22.7	--	--	22.7	6.0	28.7
2022	--	--	--	--	--	4.4	4.4
2023	--	--	--	--	--	4.2	4.2
<b>Subtotal</b>	<b>190</b>	<b>427.4</b>	<b>--</b>	<b>3.2</b>	<b>430.6</b>	<b>140.9</b>	<b>571.5</b>



## Low Rate Initial Production

### IDECM Blocks 2/3

	Initial LRIP Decision	Current Total LRIP
Approval Date	12/1/2000	6/28/2010
Approved Quantity	1	735
Reference	Program Review ADM	Gate 6 Program Review ADM
Start Year	2003	2003
End Year	2004	2012

Total LRIP is a summation of six LRIPs.

### IDECM Block 4

There is no LRIP for this program.

## Foreign Military Sales

### IDECM Blocks 2/3

Country	Date of Sale	Quantity	Total Cost \$M	Memo
Australia	7/21/2011		9.9	Australia procured IDECM Block 2/3 (ALE-55) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	6/28/2010		2.4	Australia procured IDECM Block 2/3 (EFC) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	4/17/2009		2.1	Australia procured IDECM Block 2/3 (EFC) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	4/17/2009		4.0	Australia procured IDECM Block 2/3 (ALE-55) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	2/7/2008		43.5	Australia procured IDECM Block 2/3 (ALQ-214) systems and spares as part of the Australian Super Hornet procurement, per Line 25, Amendment 1 of Case AT-P-SAF.

Australian quantities are considered sensitive by the country.

### IDECM Block 4

None

## Nuclear Costs

### IDECM Blocks 2/3

None

### IDECM Block 4

None

**Unit Cost****IDECM Blocks 2/3****Unit Cost Report**

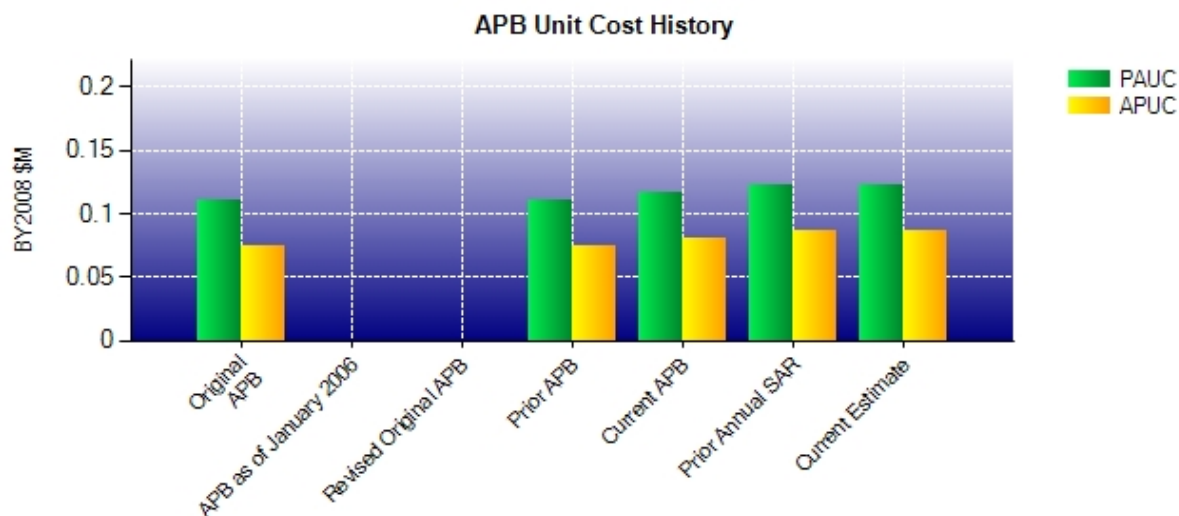
	BY2008 \$M	BY2008 \$M	
Unit Cost	Current UCR Baseline (APR 2012 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1493.9	1558.9	
Quantity	12805	12805	
Unit Cost	0.117	0.122	+4.27
Average Procurement Unit Cost (APUC)			
Cost	1037.5	1102.5	
Quantity	12805	12805	
Unit Cost	0.081	0.086	+6.17

	BY2008 \$M	BY2008 \$M	
Unit Cost	Original UCR Baseline (JUN 2008 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1410.9	1558.9	
Quantity	12809	12805	
Unit Cost	0.110	0.122	+10.91
Average Procurement Unit Cost (APUC)			
Cost	956.0	1102.5	
Quantity	12809	12805	
Unit Cost	0.075	0.086	+14.67

## IDECM Blocks 2/3

## Unit Cost History



	Date	BY2008 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	JUN 2008	0.110	0.075	0.120	0.089
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	JUN 2011	0.110	0.075	0.120	0.089
Current APB	FEB 2014	0.117	0.081	0.130	0.100
Prior Annual SAR	DEC 2012	0.122	0.086	0.145	0.114
Current Estimate	DEC 2013	0.122	0.086	0.146	0.115

## SAR Unit Cost History

## Current SAR Baseline to Current Estimate (TY \$M)

Initial PAUC Prod Est	Changes								
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	PAUC Current Est
0.120	0.000	-0.001	0.019	0.000	0.004	0.000	0.004	0.026	0.146

## Current SAR Baseline to Current Estimate (TY \$M)

Initial APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.089	0.000	-0.001	0.019	0.000	0.004	0.000	0.004	0.026	0.115

## SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	N/A	N/A	N/A	N/A
Milestone II	N/A	N/A	N/A	N/A
Milestone III	N/A	N/A	NOV 2003	NOV 2003
IOC	N/A	N/A	SEP 2004	SEP 2004
Total Cost (TY \$M)	N/A	N/A	1535.2	1868.4
Total Quantity	N/A	N/A	12809	12805
Prog. Acq. Unit Cost (PAUC)	N/A	N/A	0.120	0.146

Milestone III and IOC dates in the table above reflects IDECM Block 2 only.

## IDECM Block 4

## Unit Cost Report

	BY2008 \$M	BY2008 \$M	
Unit Cost	Current UCR Baseline (FEB 2014 APB)	Current Estimate (DEC 2013 SAR)	BY % Change

## Program Acquisition Unit Cost (PAUC)

Cost	781.7	806.5	
Quantity	190	190	
Unit Cost	4.114	4.245	+3.18

## Average Procurement Unit Cost (APUC)

Cost	541.9	571.5	
Quantity	190	190	
Unit Cost	2.852	3.008	+5.47

	BY2008 \$M	BY2008 \$M	
Unit Cost	Original UCR Baseline (JUN 2008 APB)	Current Estimate (DEC 2013 SAR)	BY % Change

## Program Acquisition Unit Cost (PAUC)

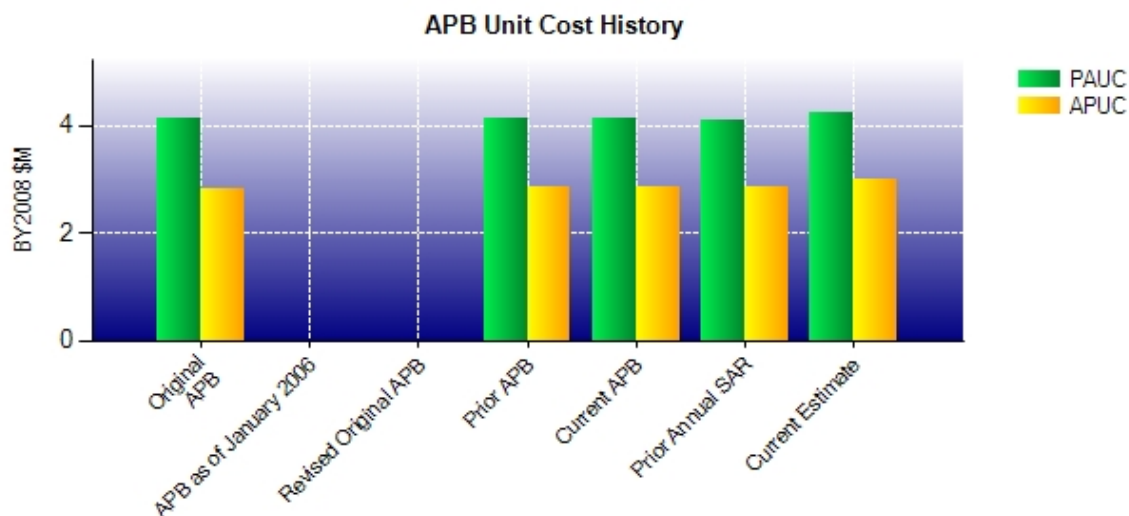
Cost	660.7	806.5	
Quantity	160	190	
Unit Cost	4.129	4.245	+2.81

## Average Procurement Unit Cost (APUC)

Cost	451.2	571.5	
Quantity	160	190	
Unit Cost	2.820	3.008	+6.67

## IDECM Block 4

## Unit Cost History



	Date	BY2008 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	JUN 2008	4.129	2.820	4.663	3.262
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	APR 2012	4.114	2.852	4.543	3.206
Current APB	FEB 2014	4.114	2.852	4.543	3.206
Prior Annual SAR	DEC 2012	4.104	2.868	4.709	3.378
Current Estimate	DEC 2013	4.245	3.008	4.877	3.548

## SAR Unit Cost History

## Current SAR Baseline to Current Estimate (TY \$M)

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.663	-0.039	-0.368	0.324	0.333	-0.354	0.000	0.318	0.214	4.877

## Current SAR Baseline to Current Estimate (TY \$M)

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
3.262	-0.028	-0.147	0.324	0.000	-0.181	0.000	0.318	0.286	3.548

## SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	MAR 2009	N/A	N/A
Milestone C	N/A	MAR 2012	N/A	N/A
IOC	N/A	FEB 2014	N/A	JAN 2015
Total Cost (TY \$M)	N/A	746.1	N/A	926.7
Total Quantity	N/A	160	N/A	190
Prog. Acq. Unit Cost (PAUC)	N/A	4.663	N/A	4.877



**Cost Variance****IDECM Blocks 2/3**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	391.0	1144.2	--	1535.2
Previous Changes				
Economic	-1.3	+2.2	--	+0.9
Quantity	--	-11.2	--	-11.2
Schedule	--	+232.0	--	+232.0
Engineering	--	--	--	--
Estimating	+1.3	+50.3	--	+51.6
Other	--	--	--	--
Support	--	+42.0	--	+42.0
Subtotal	--	+315.3	--	+315.3
Current Changes				
Economic	--	+4.2	--	+4.2
Quantity	--	--	--	--
Schedule	--	+8.9	--	+8.9
Engineering	--	--	--	--
Estimating	--	+1.7	--	+1.7
Other	--	--	--	--
Support	--	+3.1	--	+3.1
Subtotal	--	+17.9	--	+17.9
Total Changes	--	+333.2	--	+333.2
CE - Cost Variance	391.0	1477.4	--	1868.4
CE - Cost & Funding	391.0	1477.4	--	1868.4

Summary Base Year 2008 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	454.9	956.0	--	1410.9
Previous Changes				
Economic	--	--	--	--
Quantity	--	-10.5	--	-10.5
Schedule	--	+87.1	--	+87.1
Engineering	--	--	--	--
Estimating	+1.5	+34.8	--	+36.3
Other	--	--	--	--
Support	--	+32.2	--	+32.2
Subtotal	+1.5	+143.6	--	+145.1
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	+1.3	--	+1.3
Other	--	--	--	--
Support	--	+1.6	--	+1.6
Subtotal	--	+2.9	--	+2.9
Total Changes	+1.5	+146.5	--	+148.0
CE - Cost Variance	456.4	1102.5	--	1558.9
CE - Cost & Funding	456.4	1102.5	--	1558.9

Previous Estimate: December 2012

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	+4.2
Adjustment for current and prior escalation. (Estimating)	+0.8	+0.8
Stretch-out of procurement buy profile for ALE-55 Fiber-optic towed decoy from FY 2045 to FY 2046 (Procurement of Ammunition, Navy and Marine Corps (PA,NMC)). (Schedule)	0.0	+8.9
Revised estimate updated to reflect actuals (PA,NMC). (Estimating)	+0.5	+0.9
Adjustment for current and prior escalation. (Support)	+0.1	+0.1
Revised Government in-house support due to stretch-out of end of program from FY 2045 to FY 2046 (PA,NMC). (Support)	+1.5	+3.0
Procurement Subtotal	+2.9	+17.9

**Cost Variance****IDECM Block 4**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	224.2	521.9	--	746.1
Previous Changes				
Economic	-1.2	+1.3	--	+0.1
Quantity	--	+69.8	--	+69.8
Schedule	--	+38.9	--	+38.9
Engineering	+63.3	--	--	+63.3
Estimating	-33.4	-36.0	--	-69.4
Other	--	--	--	--
Support	--	+46.0	--	+46.0
Subtotal	+28.7	+120.0	--	+148.7
Current Changes				
Economic	-0.8	-6.7	--	-7.5
Quantity	--	--	--	--
Schedule	--	+22.7	--	+22.7
Engineering	--	--	--	--
Estimating	+0.5	+1.7	--	+2.2
Other	--	--	--	--
Support	--	+14.5	--	+14.5
Subtotal	-0.3	+32.2	--	+31.9
Total Changes	+28.4	+152.2	--	+180.6
CE - Cost Variance	252.6	674.1	--	926.7
CE - Cost & Funding	252.6	674.1	--	926.7

Summary Base Year 2008 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	209.5	451.2	--	660.7
Previous Changes				
Economic	--	--	--	--
Quantity	--	+59.5	--	+59.5
Schedule	--	+27.3	--	+27.3
Engineering	+57.9	--	--	+57.9
Estimating	-32.7	-29.5	--	-62.2
Other	--	--	--	--
Support	--	+36.5	--	+36.5
Subtotal	+25.2	+93.8	--	+119.0
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	+14.7	--	+14.7
Engineering	--	--	--	--
Estimating	+0.3	+1.3	--	+1.6
Other	--	--	--	--
Support	--	+10.5	--	+10.5
Subtotal	+0.3	+26.5	--	+26.8
Total Changes	+25.5	+120.3	--	+145.8
CE - Cost Variance	235.0	571.5	--	806.5
CE - Cost & Funding	235.0	571.5	--	806.5

Previous Estimate: December 2012

<b>RDT&amp;E</b>	<b>\$M</b>	
<b>Current Change Explanations</b>	<b>Base Year</b>	<b>Then Year</b>
Revised escalation indices. (Economic)	N/A	-0.8
Adjustment for current and prior escalation. (Estimating)	+0.6	+0.6
Revised estimate to reflect actuals. (Estimating)	-0.3	-0.1
<b>RDT&amp;E Subtotal</b>	<b>+0.3</b>	<b>-0.3</b>

<b>Procurement</b>	<b>\$M</b>	
<b>Current Change Explanations</b>	<b>Base Year</b>	<b>Then Year</b>
Revised escalation indices. (Economic)	N/A	-6.7
Adjustment for current and prior escalation. (Estimating)	+1.6	+1.7
Stretch-out of procurement buy profile for ALQ-214 from FY 2019 to FY 2021. (Schedule)	0.0	+3.0
Additional schedule variance for extending the buy profile of ALQ-214 from FY 2019 to FY 2021. (Schedule)	+14.7	+19.7
Revised estimate to reflect actuals. (Estimating)	-0.3	0.0
Adjustment for current and prior escalation. (Support)	+0.6	+0.7
Increase in Other Support to reflect revised Government in-house support due to stretch-out of end of program from FY 2021 to FY 2023. (Support)	+14.0	+18.4
Decrease in Initial Spares and Repair of Repairables to reflect actual costs incurred. (Support)	-4.1	-4.6
<b>Procurement Subtotal</b>	<b>+26.5</b>	<b>+32.2</b>

## Contracts

### Appropriation: RDT&E

Contract Name	<b>IDECM Block 4 (ALQ-214) ECP</b>
Contractor	ITT Exelis
Contractor Location	77 River Road Clifton, NJ 07014
Contract Number, Type	N00019-10-C-0022, FFP
Award Date	December 17, 2009
Definitization Date	July 28, 2010

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price at Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
5.0	N/A	N/A	113.5	N/A	N/A	113.5	113.5

### Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the incremental funding of this contract with RDT&E funds and the addition of the repair and field support Contract Line Item Numbers.

### Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this FFP contract.

**Appropriation: Procurement**

Contract Name **IDECM Block 4 (ALQ-214) FRP 9 & 10**  
Contractor ITT Exelis  
Contractor Location 77 River Road  
Clifton, NJ 07014  
Contract Number, Type N00019-12-C-0002, FFP  
Award Date April 16, 2012  
Definitization Date April 16, 2012

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price at Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
64.3	N/A	23	195.6	N/A	62	195.6	195.6

**Target Price Change Explanation**

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the addition of two ALQ-214 systems and the award of Full Rate Production (FRP) 10.

**Cost and Schedule Variance Explanations**

Cost and Schedule Variance reporting is not required on this FFP contract.



**Appropriation: Procurement**

Contract Name **IDECM Block 3 (ALE-55/EFC) FRP 2, 3 & 4**  
 Contractor BAE Systems  
 Contractor Location 66 Spit Brook Road  
 Nashua, NH 06060  
 Contract Number, Type N00019-13-C-0010, FFP  
 Award Date December 17, 2012  
 Definitization Date December 17, 2012

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price at Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
50.8	N/A	660	80.8	N/A	1007	80.8	80.8

**Target Price Change Explanation**

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the award of Full Rate Production (FRP) 4.

**Cost and Schedule Variance Explanations**

Cost and Schedule Variance reporting is not required on this FFP contract.

## Deliveries and Expenditures

### IDECM Blocks 2/3

Delivered to Date	Plan to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	1297	1347	12805	10.52%
Total Program Quantity Delivered	1297	1347	12805	10.52%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	1868.4	Years Appropriated	20
Expended to Date	791.1	Percent Years Appropriated	38.46%
Percent Expended	42.34%	Appropriated to Date	874.6
Total Funding Years	52	Percent Appropriated	46.81%

The above data is current as of 3/6/2014.

Deliveries reflect 85 ALQ-214s and 1262 Fiber Optic Towed Decoys (FOTD). ALQ-214 deliveries are complete. FOTD deliveries are currently ahead of schedule. Expenditures reflect IDECM Block 2/3 RDT&E, Aircraft Procurement, Navy (APN-5) and Procurement of Ammo, Navy and Marine Corps (PA,NMC).

### IDECM Block 4

Delivered to Date	Plan to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	3	3	190	1.58%
Total Program Quantity Delivered	3	3	190	1.58%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	926.7	Years Appropriated	7
Expended to Date	185.0	Percent Years Appropriated	43.75%
Percent Expended	19.96%	Appropriated to Date	427.7
Total Funding Years	16	Percent Appropriated	46.15%

The above data is current as of 3/6/2014.

## Operating and Support Cost

### IDECM Blocks 2/3

#### Assumptions and Ground Rules

##### Cost Estimate Reference:

AIR 4.2 Estimate  
February 2013

##### Sustainment Strategy:

- Current Program: IDECM Blocks 2/3
- Flight Hours per aircraft per month: 30
- Number of Aircraft Operating Years: 1,770
- Operational Service Life (Years): 20
- Total Life Cycle Flight Hours: 63,720

The maintenance concept for the ALQ-214(V)2/3 and ALE-55(V) is two levels, Organizational to Depot. Organizational Level activities will include: removal and replacement of faulty Weapons Replacement Assemblies (WRAs) identified by Built In Test (BIT)/Maintenance Service Panel (MSP) Code; removal and replacement of the Magazine containing the faulty decoy identified by BIT/MSP Code; loading of Operational Flight Program/Mission Data File with Memory Loader Verifier System as required; retest by BIT to verify repair action; end-to-end testing with Organizational Support Equipment (OSE) as required; corrosion control and phase inspections. Maintenance Support for the IDECM Blocks 2/3 is performed by fleet personnel. There are presently no Contractor Engineering & Technical Services or United States Navy Engineering & Technical Services representatives. If additional support is required, the Type Commander can then request technical assistance for the IDECM Deputy Assistant Program Manager Logistics (DAPML). The DAPML will assess the issue and request support from the Fleet Support Team (FST) and/or Original Equipment Manufacturer (OEM).

Depot Level activities will include: removal and replacement of faulty modules/parts to the component or Shop Replaceable Assembly (SRA) level and verification of repair. Depot level maintenance consists of inspection, test, troubleshooting, repair, overhaul and disposal of WRAs/SRAs which are beyond repair. Depot support is provided by the OEMs managed by the Naval Supply System Command Weapons Systems Support, Philadelphia.

The ALQ-214(V)2/3 and ALE-55(V) will contain a BIT capability consisting of Periodic BIT (PBIT) and Initiated BIT (IBIT). IBIT will be used as a preflight and maintenance test on the ground when commanded by the mission computer or other controller. These BIT test determine if the ALQ-214(V)2/3 WRAs and the ALE-55(V) are operational. PBIT provides automatic and continuous monitoring of mission critical parameters on a background basis during normal system operation. PBIT will not fault isolate but will give clear indications of mission critical failures signaling that IBIT needs to be run. IBIT consists of a series of tests to assess the operational status of the system as well as fault isolate problem hardware. End-to-end testing with utilizing a combination of OSE and BIT as required. On the F/A-18E/F, the ALE-55(V) IBIT is run simultaneously with the ALQ-214(V)2/3.

A Maintenance Plan (MaPI) for IDECM Blocks 2/3 is currently available to support the logistics program. The MaPIs are updated as necessary to reflect configuration changes. IDECM Blocks 2/3 MaPI is a deliverable from the Logistics Management Information database and contains all necessary information for interim supply support and development of source data for the F/A-18 Interactive Electronic Technical Manual. The FST at Jacksonville presently manages the MaPIs for the ALQ-214(V)2/3 and ALE-55(V).

Antecedent Information:

- Antecedent program: ASPJ
- # of Aircraft Operating Years: 1,770 (Not actual, but used in order to provide a comparison between the ALQ-214(V)3 Suite and its antecedent system)

For comparison purposes, the Base Year Antecedent Average Annual Cost per System is derived from total FY 2009-FY 2011 cost from Navy Visibility and Management of Operating and Support Costs (VAMOSC) Aircraft Type Model Series Report (ATMSR) divided by the total number of systems in ATMSR for FY 2009- FY 2011. This value is then multiplied by the total number of system operating years associated with ALQ-214(V)3 Suite to provide a point of comparison.

Unitized O&S Costs BY2008 \$K		
Cost Element	IDECM Blocks 2/3 Average Annual Cost per ALQ- 214(V)3 Suite	Aircraft Self Protection Jammer (ASPJ) (Antecedent) Average Annual Cost per ASPJ
Unit-Level Manpower	0.000	0.000
Unit Operations	0.000	0.000
Maintenance	97.200	91.883
Sustaining Support	10.500	8.307
Continuing System Improvements	20.100	7.692
Indirect Support	0.000	0.000
Other	0.000	0.000
Total	127.800	107.882

Unitized Cost Comments:

The Average Annual Cost Per Aircraft for the ALQ-214(V)3 Suite is calculated by dividing the Total O&S Cost by the Total Operational System Years for the program.

	Total O&S Cost \$M			
	Current Production APB Objective/Threshold		Current Estimate	
	IDECM Blocks 2/3		IDECM Blocks 2/3	Aircraft Self Protection Jammer (ASPJ) (Antecedent)
Base Year	226.3	248.9	226.3	190.9
Then Year	290.6	N/A	290.6	228.0

Total O&S Costs Comments:

None

**Disposal Costs:**

While these costs are not part of the Cost Assessment and Program Evaluation 2007 Operating & Support Cost Element Structure and hence are not included in the totals above, their Life Cycle Cost impact has been estimated at \$0.680 BY 2008 \$M and \$1.059 TY \$M.

**IDECM Block 4****Assumptions and Ground Rules**Cost Estimate Reference:

AIR 4.2 Estimate  
February 2013

Sustainment Strategy:

- Current Program: IDECM Block 4
- Flight Hours per aircraft per month: 30
- Number of Aircraft Operating Years: 3,800
- Operational Service Life (Years): 20
- Total Life Cycle Flight Hours: 684,000

The IB-4, ALQ-214(V)4/5, is an Engineering Change Proposal to the ALQ-214(V)3 and as such will follow the same sustainment strategy and infrastructure established for the fielded ALQ-214(V)3.

The maintenance concept for the ALQ-214(V)4/5 is two levels, Organizational to Depot. Organizational Level activities will include: removal and replacement of faulty Weapons Replacement Assemblies (WRAs) identified by Built In Test (BIT)/Maintenance Service Panel Code; loading of Operational Flight Program/Mission Data File with Memory Loader Verifier System as required; retest by BIT to verify repair action; end-to-end testing with Organizational Support Equipment (OSE) as required; corrosion control and phase inspections. Maintenance Support for the IB-4 is performed by fleet personnel. There are presently no Contractor Engineering & Technical Services or Navy Engineering & Technical Services representatives. If additional support is required, the Type Commander can then request technical assistance for the IDECM Deputy Assistant Program Manager Logistics (DAPML). The DAPML will assess the issue and request support from the Fleet Support Team (FST) and/or Original Equipment Manufacturer (OEM).

Depot Level activities will include: removal and replacement of faulty modules/parts to the component or Shop Replaceable Assembly (SRA) level and verification of repair. Depot level maintenance consists of inspection, test, troubleshooting, repair, overhaul and disposal of WRAs/SRAs which are beyond repair. Depot support is provided by the OEMs managed by the Naval Supply Systems Command Weapon Systems Support, Philadelphia.

The ALQ-214(V)4/5 contain a BIT capability consisting of Periodic BIT (PBIT) and Initiated BIT (IBIT). IBIT is used as a preflight and maintenance test on the ground when commanded by the mission computer or other controller. These BIT determine if the ALQ-214(V)4/5 WRAs are operational. PBIT provides automatic and continuous monitoring of mission critical parameters on a background basis during normal system operation. PBIT will not fault isolate but will give clear indications of mission critical failures signaling that IBIT needs to be run. IBIT consists of a series of tests to assess the operational status of the system as well as fault isolate problem hardware. End-to-end testing utilizes a combination of OSE and BIT as required.

A preliminary Maintenance Plan (MaPI) for IB-4 is currently available to support the logistics program. The MaPIs will be updated as necessary to reflect configuration changes. IB-4 MaPI is a deliverable from the Logistics Management Information database and contains all necessary information for interim supply support and development of source data for the F/A-18 Interactive Electronic Technical Manual. Following IOC, IB-4 MaPI management will transition to the FST at Fleet Readiness Center-Southeast, In-Service Support Center, Jacksonville, Florida.

Antecedent Information:

- Antecedent program: ASPJ
- # of Aircraft Operating Years: 3,800 (Not actual, but used in order to provide a comparison between the ALQ-214(V)4 Suite and its antecedent system)

For comparison purposes, the Base Year Antecedent Average Annual Cost per System is derived from total FY09-11 cost from Navy Visibility and Management of Operating and Support Costs (VAMOSC) Aircraft Type Model Series Report (ATMSR) divided by the total number of systems in ATMSR for FY09-11. This value is then multiplied by the total number of system operating years associated with ALQ-214(V)4 Suite to provide a point of comparison.

Unitized O&S Costs BY2008 \$K		
Cost Element	IDECM Block 4 Average Annual Cost per ALQ-214(V)4 Suite	Aircraft Self Protection Jammer (ASPJ) (Antecedent) Average Annual Cost per ASPJ
Unit-Level Manpower	0.000	0.000
Unit Operations	0.000	0.000
Maintenance	55.341	91.883
Sustaining Support	3.809	8.307
Continuing System Improvements	10.506	7.692
Indirect Support	0.000	0.000
Other	0.000	0.000
Total	69.656	107.882

Unitized Cost Comments:

The Average Annual Cost Per Aircraft for the ALQ-214(V)4 Suite is calculated by dividing the Total O&S Cost by the Total Operational System Years for the program.

	Total O&S Cost \$M			
	Current Development APB Objective/Threshold		Current Estimate	
	IDECM Block 4		IDECM Block 4	Aircraft Self Protection Jammer (ASPJ) (Antecedent)
Base Year	264.7	291.2	264.7	409.9
Then Year	378.8	N/A	378.8	549.2

Total O&S Costs Comments:

None

**Disposal Costs:**

While these costs are not part of the Cost Assessment and Program Evaluation 2007 Operating & Support Cost Element Structure and hence are not included in the totals above, their Life Cycle Cost impact has been estimated at \$1.520M BY 2008 \$M and \$2.490 TY \$M.